IC-PS15

AC POWER SUPPLY

INSTRUCTION MANUAL

SER# 04194
PURCH FROM:
VHF COMMUNICATIONS
915 N. MAIN ST,
JAMESTOWN, N.Y.
14701

ICOM

Thank you for having chosen the IC-PS15 Power Supply designed for ICOM's transceivers. This AC power supply is a newly developed power source designed specifically for ICOM's Digital, All Solid-State, All Band, HF Transceiver, 100W continuous output, with a General Coverage Receiver, the IC-720.

■ SPECIFICATIONS

• **Number of Semiconductors:**	Transistors 4 Diodes 7
• **Input Voltage:**	100V, 117V, 200V, 240V, AC (50/60HZ) ±10%
• **Input Capacity:**	550VA, at 20A load
• **Output Voltage:**	13.8V DC, negative ground
• **Max. Load Current:**	20A, 10 minutes on, 10 minutes off, 50% duty cycle
• **Dimensions:**	110(H) x 180(W) x 290(D) mm.
• **Weight:**	Approximately 8.2 kgs.
• **Accessories supplied:**	2 spare fuses Instruction Manual

■ BEFORE USE:

This is a regulated power supply with output of 13.8V DC, 20A, for use with ICOM's IC-720, with continous RF output of 100W, or other matching transceiver.

The IC-PS15 has complete safeguards against: Increased ripple in the output voltage caused by lower input voltage, fluctuation of output voltage caused by ambient temperature change, breakdown of transistors caused by high current at output terminals, etc.

This power supply is designed to be turned on/off by the power switch on the transceiver. There is no power switch on the IC-PS15. This unit supplies 20A maximum at 13.8V DC; avoid using this unit with sets other than ICOM's matching transceivers, even for experiments.

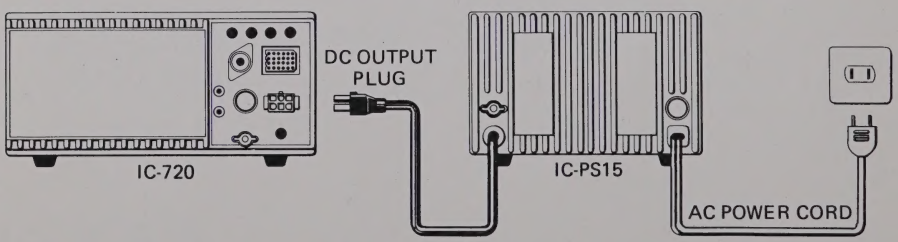
A cooling fan, IC-CF1, with mounting hardware, is available as an option. Its use is recommended when the IC-720 is operated in the RTTY mode, or the power supply heats up due to ambient temperatures.

■ HOW TO USE:

Connect the DC OUTPUT plug of the IC-PS15 to the power connector of the IC-720, or other ICOM's matching transceiver, firmly. The drawing shows this connection. When this is done, be sure:

1. The power switch of the transceiver is OFF;
2. The T/R switch is in the RECEIVE position; and,
3. No microphone is connected to the transceiver.

Connect the AC POWER cord to a power outlet. When the power switch of the transceiver is turned on, the IC-PS15 will be turned ON, and the power indicator LED will light. For further operating information, refer to the Instruction Manual of the transceiver.



ICOM

ICOM AMERICA, INC.
Corporate Headquarters
2112 116th Ave. N.E., Bellevue, Washington 98004
Phone: (206) 454-8155 Telex: 152210

July 15, 1981

S. N. McEwen
135 N. Grove
Bowling Green, OH 43402

Dear Mr. McEwen:

Thank you very much for your recent purchase of an IC-720A. I hope you are enjoying your unit.

The IC-720A was engineered in the manner which you described because it was not considered a good idea to have a low band within the transmitting range of the ham band antenna, picking up large levels of RF and re-introducing them back into the radio. This would cause some amount of RF feedback. As a result, when power levels over 100 watts are used, the decision was made to have these functions mutually exclusive. This is an engineering concept which I believe is basically sound. Modification for using the IC-720A on bands other than the ham bands is possible with proper verification of the FCC marine license, although the unit is not certified in these bands. This information would need to come from your local dealer.

Thank you very much for choosing ICOM. It hope it continues to serve you well in the future.

Best regards,

C. T. Snellings
Service Manager

CTS:ls

Phoned 7-21-81
Erwin Ransdell

EX-1 - $32.60

REGIONAL SALES / SERVICE OFFICES:
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2112 - 116th Ave. N.E., Bellevue, Washington 98004 Phone: (206) 454-8155 Telex: 152210

ICOM

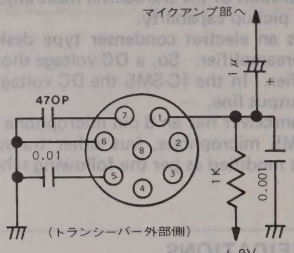
DESK MICROPHONE IC-SM5
取扱説明書

この度はデスクマイクロホンIC-SM5をお買い上げいただきまして誠にありがとうございます。

このマイクロホンは固定局用として設計されたプリアンプを内蔵したエレクトレットコンデンサータイプですので、クリアーな音質と余裕のある感度が得られます。

このマイクロホンはプリアンプ内蔵のエレクトレットタイプですので、電流電圧を加えなければ動作しません。直流電圧はマイクロホンの低周波出力端子に重畳して加えています。ICOMの８Ｐコネクターのトランシーバーにはそのまま使用できるように配線していますが、他のトランシーバーあるいは送信機に接続する場合は図１のように改造する必要があります。

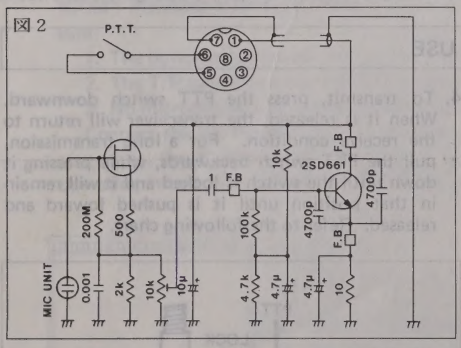
図１



定　　格

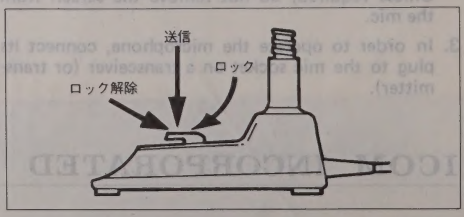
形　　式	エレクトレット　コンデンサー　タイプ
指　向　性	単一指向性
出力インピーダンス	1.3KΩ
感　　度	−27dB　±6dB　at　1000Hz　0dB＝1V/μber　(低抗器最大にて)
周波数帯域	400Hz〜10000Hz
重　　量	310g(コード、コネクターを含む)
内部回路	図２のとうり

図２



使いかた

1. マイクロホンのプラグをトランシーバー（送信機）のマイクコンセントに接続してください。
2. 下図のように P.T.T. スイッチを下方に押しますと送信状態になりますので、P.T.T. スイッチを押しながらマイクロホンに向って話してください。P.T.T. スイッチから手をはなしますとスイッチが切れ、受信状態に戻ります。
3. P.T.T. スイッチを下方へ押しながら手前に引きますとスイッチがロックされ、手をはなしても送信状態のままになりますので、長時間続けて送信するとき等は大変便利です。ロックされたP.T.T. スイッチを受信状態に戻すときは、スイッチを前方に押し、手をはなします。
4. 口とマイクロホンの距離は30cm位が適当です。マイクロホン台の裏面に感度調整用の半固定抵抗器があり、H側に回わしますと感度が上がり、L側に回わしますと感度が下がります。(口とマイクロホンの距離、声の大きさ、周囲の状況等によって適当な感度となるように調整してください)
5. ウインドスクリーンが付属しています。風による雑音、湿気等によってマイクロホンユニットを痛めるのを防ぐため、できるだけマイクロホンユニットに取り付けるようにしてください。



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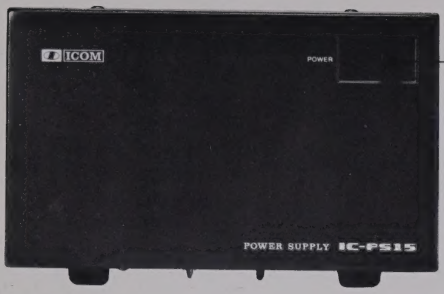
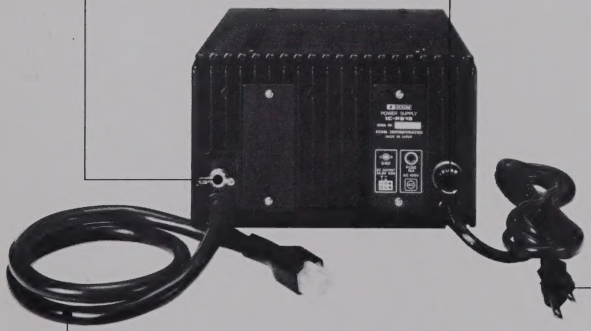


POWER DISPLAY LED
Illuminates when power is on. No power switch is installed on IC-PS15. ON/OFF is controlled by the POWER SWITCH of the transceiver.

FUSE HOLDER
Fuse holder for the AC power line. If blown, replace it with a 10A (at 117V) or 5A (at 240V) fuse after checking cause of problem. Use a Philips screwdriver to open the holder. The outside ring of the holder is fixed.

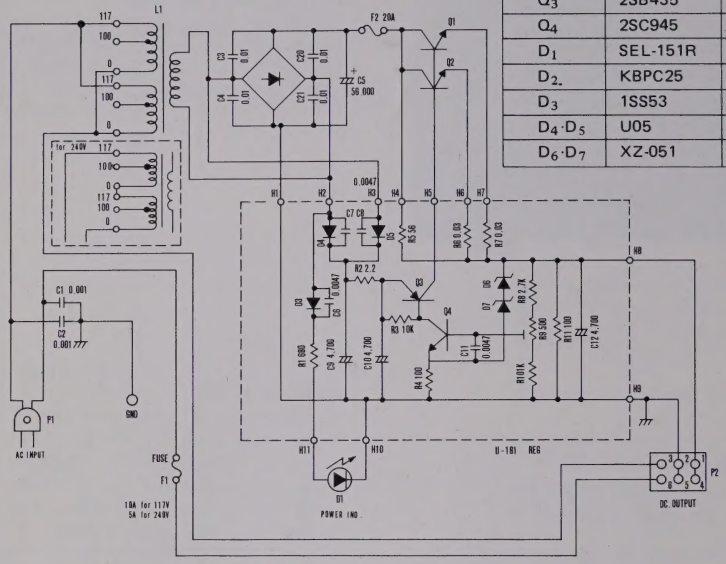
GND TERMINAL
Ground this terminal with the shortest possible wire for shock protection or other mishap.



DC OUTPUT PLUG
13.8V DC is available at up to 20A. Connect this plug to the power connector of the transceiver.

AC POWER CORD
Connect the plug to a power outlet.

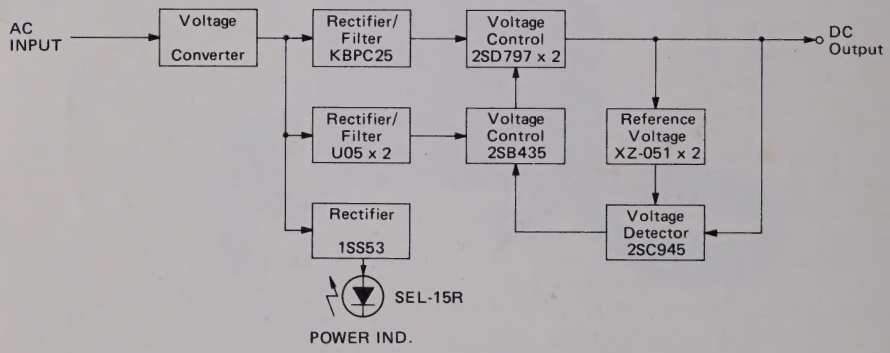
SCHEMATIC DIAGRAM



COMPONENTS USED IN POWER CIRCUIT

PART No.	Type	Operation
$Q_1 \cdot Q_2$	2SD797	Voltage Control
Q_3	2SB435	Voltage Control
Q_4	2SC945	Voltage Detector
D_1	SEL-151R	Power IND.
D_2	KBPC25	Rectifier/Filter
D_3	1SS53	Rectifier
$D_4 \cdot D_5$	U05	Rectifier/Filter
$D_6 \cdot D_7$	XZ-051	Reference Voltage

BLOCK DIAGRAM



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